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CONFIRMATION NO. ATTORNEY DOCKET NO. FIRST NAMED INVENTOR FILING DATE APPLICATION NO. 7354 66376-325-7 Bertram Obermayer 07/16/2003 10/619,464 **EXAMINER** 10/01/2004 25269 7590 HARRIS, KATRINA B DYKEMA GOSSETT PLLC FRANKLIN SQUARE, THIRD FLOOR WEST PAPER NUMBER ART UNIT 1300 I STREET, NW 3747 WASHINGTON, DC 20005

DATE MAILED: 10/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/619,464	OBERMAYER ET AL.
	Examiner	Art Unit
	Katrina B. Harris	3747
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
1)⊠ Responsive to communication(s) filed on 16 Ju	ılv 2003.	
<u> </u>	action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
 4) Claim(s) 6-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 6-11 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 		
Application Papers		
9) The specification is objected to by the Examiner.		
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 		
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Summary	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 07/16/03.	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-152)

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DETAILED ACTION

The following is a first action on the merits of application serial no. 10/619,464 filed July 16, 2003.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 6-11 are rejected under 35 U.S.C. 102(b) as being anticipated by

Hamparian et al. (4,046,114). Rudert et al. discloses a cylinder head for a multicylinder liquid-cooled internal combustion engine, with a cooling chamber configuration
adjacent to a fire deck, which is divided by an intermediate deck essentially parallel to
the fire deck into a lower cooling chamber next to the fire deck and an upper cooling
chamber adjoining the lower cooling chamber in the direction of the cylinder axis,
wherein lower and upper cooling chambers communicate with each other via at least
one first transfer opening, and wherein at least one first transfer opening is provided in
an area of an opening receiving a centrally disposed fuel injection device, and wherein
at least one coolant inlet per cylinder opens into the lower cooling chamber, and at least
one coolant outlet departs from the upper cooling chamber, and wherein a lower cooling
chamber is associated with each cylinder and the lower cooling chambers of at least
two adjacent cylinders are essentially separated from each other by a partitioning wall

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and a coolant flow in the lower cooling chamber is essentially transverse to the cylinder head, and wherein the upper cooling chamber extends over at least two cylinders, wherein the first transfer opening and the opening receiving the fuel injection device are spatially separated by a defined minimum distance between the receiving opening and the transfer opening, and wherein at least one first transfer opening is disposed in an area of at least one web between intake port and receiving opening and/or exhaust port and receiving opening.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent No. 4,083,333 iissued to Rudert et al. is a similar system.

Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Katrina B. Harris whose telephone number is 703-308-8323. The examiner can normally be reached on 6:00 AM -2:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on 703-308-1946. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Katrina B. Harris VBA Examiner Art Unit 3747

KBH

Andrew M. Dolinar Primary Examiner